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UNITED STATES
PATENT AND
TRADEMARK OFFICE



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FEBRUARY 11, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

FOLEY & LARDNER
PAUL S. HUNTER
FIRSTAR CENTER
777 EAST WISCONSIN AVENUE
MILWAUKEE, WI 53202-5367



101923808A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/11/2001

REEL/FRAME: 012381/0115
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LUKANC, TODD P.

DOC DATE: 12/05/2001

ASSIGNOR:

SPENCE, CHRISTOPHER A.

DOC DATE: 12/07/2001

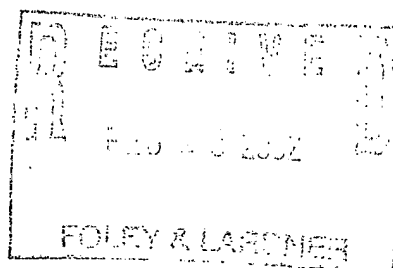
ASSIGNEE:

ADVANCED MICRO DEVICES, INC.
1160 KERN AVENUE
SUNNYVALE, CALIFORNIA 94088

SERIAL NUMBER: 10016273
PATENT NUMBER:

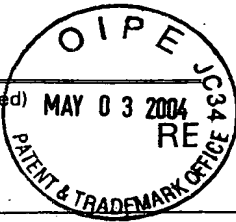
FILING DATE: 12/11/2001
ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



2/19/02
AM

MAY 03 2004



12-26-2001



101923808

y. Dkt. No. 039153-0450 (G1155)

U.S. DEPARTMENT OF COMMERCE

SHEET

Patent and Trademark Office

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Todd P. Lukanc
Christopher A. Spence

12/11/01

Additional conveying party(ies) NO

2. Name and address of receiving party(ies):

Advanced Micro Devices, Inc.
1160 Kern Avenue
Sunnyvale, CA 94088

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

12/05/2001 & 12/07/2001 Respectively

Additional name(s) & address(es) attached? NO

4. Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is: 12/05/2001 &
12/07/2001
Respectively

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Paul S. Hunter
FOLEY & LARDNER
Firststar Center
777 East Wisconsin Avenue
Milwaukee, Wisconsin 53202-5367

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Check Enclosed

Charge to deposit account

8. Deposit account number: 06-1447

DO NOT USE THIS SPACE

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Paul S. Hunter

Name of person signing

Signature

Dec 11, 2001

Date

Total number of pages including cover sheet, attachments, and document: 4

12/21/2001 TDI A21 00000143 10016273

01 FC:581

40.00 DP

001.1132178.1

ASSIGNMENT AND AGREEMENT

WHEREAS, Todd P. Lukanc of 1217 Rockhaven Drive, San Jose, CA 95120 and Christopher A. Spence of 1145 Andover Drive, Sunnyvale, CA 94087; (hereinafter referred to singly and collectively as "ASSIGNOR") have invented a certain invention entitled **METHOD OF ENHANCING CLEAR FIELD PHASE SHIFT MASKS WITH BORDER REGIONS AROUND PHASE 0 AND PHASE 180 REGIONS** (Atty. Dkt. No. 039153-0450 (G1155)) for which an application for United States Letters Patent was executed by ASSIGNOR concurrently herewith; and

WHEREAS, Advanced Micro Devices, Inc., a corporation duly organized and existing under the laws of the State of ASSIGNEE STATE INC, and having its principal place of business at 1160 Kern Avenue, Sunnyvale, CA 94088 (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper

title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner** do not personally represent ASSIGNOR or ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Executed this 05 day of Dec, 2001

Todd P. Lukanc

TODD P. LUKANC

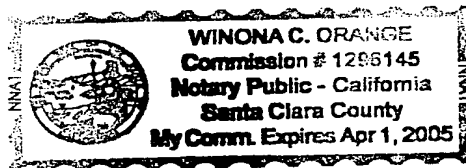
State of California
County of Santa Clara) ss.

On this 5th day of Dec., 2001, before me, a notary public in and for said county, appeared TODD P. LUKANC, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

Winona C. Orange
Notary Public

My Commission Expires: 04/01/05

(Seal)



Executed this 07 day of December, 2007.

State of California,
County of Santa Clara) ss.

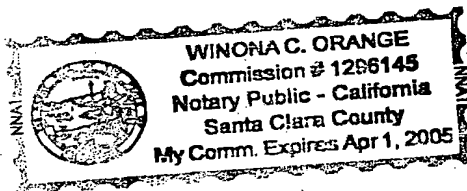
CAS
CHRISTOPHER A. SPENCE

On this 7th day of DEC., 2001, before me, a notary public in and for said county, appeared CHRISTOPHER A. SPENCE, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledged that he signed, sealed, and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

Winona C. Orange
Notary Public

My Commission Expires: 04/01/05

(Seal)





UNITED STATES
PATENT AND
TRADEMARK OFFICE



04105/44
JNZ
COPY

APRIL 10, 2002

FOLEY & LARDNER
PAUL S. HUNTER
FIRSTAR CENTER
777 EAST WISCONSIN AVENUE
MILWAUKEE, WISCONSIN 53202-5367

Chief Information Officer
Washington, DC 20231
www.uspto.gov



102038441A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

**CORRECTED
NOTICE**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U. S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/11/2001

REEL/FRAME: 012389/0103
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LUKANC, TODD P.

DOC DATE: 12/05/2001

ASSIGNOR:

SPENCE, CHRISTOPHER A.

DOC DATE: 12/07/2001

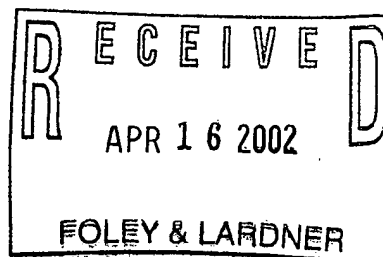
ASSIGNEE:

ADVANCED MICRO DEVICES, INC.
1160 KERN AVENUE
SUNNYVALE, CALIFORNIA 94088

SERIAL NUMBER: 10016702
PATENT NUMBER:

FILING DATE: 12/11/2001
ISSUE DATE:

JACQUELINE MOORE, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



4/18/02
PM



04-03-2002

Pat. Dkt. No. 039153-0449 (G1154)

FORM PTO-1595 (modified)

(Rev 6-93)



102038441

SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Todd P. Lukanc
Christopher A. Spence

12-11-01

2. Name and address of receiving party(ies):

Advanced Micro Devices, Inc.
1160 Kern Avenue
Sunnyvale, CA 94088



Additional conveying party(ies) NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

12/05/2001 & 12/07/2001 Respectively

Additional name(s) & address(es) attached? NO

4. Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is: 12/05/2001 & 12/07/2001 Respectively

10, 016702

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Paul S. Hunter
FOLEY & LARDNER
Firststar Center
777 East Wisconsin Avenue
Milwaukee, Wisconsin 53202-5367

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Check Enclosed

Charge to deposit account

8. Deposit account number: 06-1447

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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Paul S. Hunter

Dec. 11, 2001

Name of person signing

Signature

Date

12/27/2001 DBYRNE 00000044 10016702

01 FC:581

40.00 Total number of pages including cover sheet, attachments, and document: 4

12-28-2001

y. Dkt. No. 039153-0449 (G1154)

FORM PTO-1595 (modified)

(Rev. 6-93)

REI



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SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Todd P. Lukanc
Christopher A. Spence

12-11-01

2. Name and address of receiving party(ies):

Advanced Micro Devices, Inc.
1160 Kern Avenue
Sunnyvale, CA 9408811050 U.S. PTO
10/016702
12/11/01

Additional conveying party(ies) NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

12/05/2001 & 12/07/2001 Respectively

Additional name(s) & address(es) attached? NO

4. Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is: 12/05/2001 &
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Respectively

10,016702

A. Patent Application Number(s):

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Paul S. Hunter

Name of person signing

2/27/2001 DBYRNE 00000044 10016702

Signature

Date

Dec. 11, 2001

1 FC:581

40.00 Total number of pages including cover sheet, attachments, and document: 4

ASSIGNMENT AND AGREEMENT

WHEREAS, Todd P. Lukanc of 1217 Rockhaven Drive, San Jose, CA 95120 and Christopher A. Spence of 1145 Andover Drive, Sunnyvale, CA 94087; (hereinafter referred to singly and collectively as "ASSIGNOR") have invented a certain invention entitled **METHOD OF ENHANCING CLEAR FIELD PHASE SHIFT MASKS BY ADDING PARALLEL LINE TO PHASE 0 REGION** (Atty. Dkt. No. 039153-0449 (G1154)) for which an application for United States Letters Patent was executed by ASSIGNOR concurrently herewith; and

WHEREAS, Advanced Micro Devices, Inc., a corporation duly organized and existing under the laws of the State of Delaware, and having its principal place of business at 1160 Kern Avenue, Sunnyvale, CA 94088 (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper

title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

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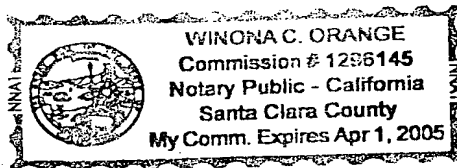
Executed this 05 day of Dec, 2001.

State of California,
County of Santa Clara) ss.

Todd P. Lukanc
TODD P. LUKANC

On this 5th day of Dec., 2001, before me, a notary public in and for said county, appeared TODD P. LUKANC, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he ~~she~~ acknowledged that ~~he~~ she signed, sealed, and delivered the said instrument as his ~~her~~ free and voluntary act for the uses and purposes therein set forth.

(Seal)



Winona C. Orange
Notary Public

My Commission Expires: 04/01/05

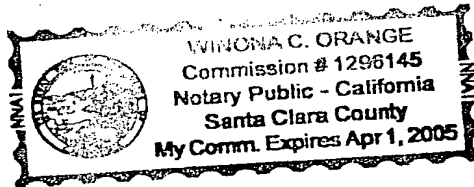
Executed this 07 day of December, 2001.

State of California,
County of Santa Clara, ss.

CR
CHRISTOPHER A. SPENCE

On this 7th day of DEC., 2001, before me, a notary public in and for said county, appeared CHRISTOPHER A. SPENCE, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

(Seal)



Winona C. Orange
Notary Public
My Commission Expires: 04/01/05